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CONTENTS: A.Ö.Kocak: Notes on the Lepidoptera of Erzurum Province (East Turkey), p.73- A.Ö.Kocak: *Discoloxia blomeri* (Curtis) in Turkey (Lepidoptera, Geometridae), p.92- A.Ö.Kocak: On the early stages of *Cynaeda gigantea* (Stgr.) in Central Turkey (Lepidoptera, Pyralidae), p.95- A.Ö.Kocak: *Neodiprion sertifer* (Geoffroy) in Turkey (Hymenoptera, Diprionidae), p.98 - A.Ö.Kocak: *Geometra purissima* Wiltshire in North Pakistan (Lepidoptera, Geometridae), p.100- A.Ö.Kocak: Notes on the taxonomy and Nomenclature of the Palaearctic Noctuidae (Lepidoptera)-I, p.103- Editorial: p.104.

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## NOTES ON THE LEPIDOPTERA OF ERZURUM PROVINCE (EAST TURKEY)

by

Ahmet Ö.Koçak

Priamus 5(3):73-91, 1 map, 6 figs.

**ABSTRACT:** In this paper, totally 75 species of Lepidoptera collected from various parts in the Province Erzurum (E.Turkey) are listed. Synonyms and original references of some taxa are mentioned. Faunistic and ecological informations are also added to certain species. Six species are illustrated in their natural positions.

During our lepidopterological trip, my friend Günter Ebert and I observed and collected a number of butterflies and moths from various localities in the Province Erzurum (East Turkey).

The localities visited are mentioned below (Map 1):

No 1. On July 10th, 1985, Erzurum Prov., Pazaryolu, Akbulut 1650m., several moths were collected by a light-trap, but because of the weather conditions the result was not successful.

- No 2. On July 11st, 1985, at the same place, on stony dry slopes covered by especially *Euphorbia* sp. butterflies were observed and collected.
- No 3. On July 11st, 1985, Akbulut 1950m., at a damp place butterflies were observed and taken.
- No 4. On July 11st, 1985, Akbulut 2150m, on a sunny midday, butterflies were found in the tragacanthic high mountain steppe-formations.
- No 5. On July 11st, 1985, Gölyurt Pass 2380-2450m., a number of butterflies and moths, inhabiting on the grassy slopes and stony hill-tops.
- No 6. On July 11st, 1985, vicinity of Kırık, 2100m. Butterflies were found especially in the *Vicia* fields.
- No 7. On July 11st, 1985, ski-house 2200m. Light-trap was not successful, because of the strong wind by night.
- No 8. On July 12nd, 1985, Palandöken Mts. Ejder Tepesi 2950m. Some alpine butterflies and moths were found during morning hours.
- No 9. On July 12nd, 1985, Palandöken 2500m. on flowery damp meadows, a number of butterflies were observed and taken.

The following list, comprises 75 species, is based on the collection of the year 1985, field observations, and other specimens in the collection of CES.

#### PIERIDAE

##### *Colias crocea* (Fourcroy)

*Papilio croceus* Fourcroy, 1785, *Entomologia Parisiensis*:  
250, Type(s): [FRANCE]: Paris.

1 ♂ : Ejder Tepesi 2950m. 12.7.1985. This species was observed also at the locality No 5.

##### *Colias aurorina* H.-Sch.

*Colias aurorina* Herrich-Schäffer, [1850], *Syst. Bearb.*  
*Schmett. Eur. I*: figs. 453-456; *ibid.* 6: 22, [1851]. Syn-  
types: [TURKEY]: Kleinasien.

This species was observed at the locality No 5.

*Colias chlorocoma* Christoph

*Colias chlorocoma* Christoph, 1888, *Horae Soc. ent. ross.* 22:  
308. Syntypes: |TURKEY|: Kasikoparan.

This species flies often sympatrically with the preceding species.  
It is confined to the alpine region of the mountains. The butterflies were  
observed at the localities no 5 and 8.

*Colias thisoa* Ménétries

*Colias thisoa* Ménétries, 1832, *Catalogue raisonné des*  
*objets de Zoologie réunis dans un voyage au*  
*Caucase...* 244-245. Type(s): |U.S.S.R.|: Caucasus: Schach,  
8000".

*Colias thisoa* ssp. *strandiana* Sheljuzhko, 1935, *Folia zool.*  
*Hydrobiol.* 8: 138. Syntypes 1 ♂ 3 ♀: |U.S.S.R.|: Nord-Ar-  
menien: Alagez Berge.

An alpine species, apparently confined to the tragachantic high steppe-  
formations.

2 ♂ 1 ♀: Erzurum Prov. Palandöken, Ejder Tepesi 2950m., 12.7.1985 leg.  
Koçak; 1 ♂ Türkei, Erzurum 2300-2500m. 12.7.-15.7.1977 leg. Eckweiler (coll. CES).

## ARGYNNIDAE

*Aglais urticae* (Linnaeus)

*Papilio urticae* Linnaeus, 1758, *Syst. Nat.* (Edn 10) 1: 477.  
Type(s): |EUROPE|.

*Vanessa urticae* v. *turcica* Staudinger, 1871, *Cat. Lepid.*  
*Eur. Faunengeb.* 1: 16. Syntypes: Südlich BALKAN-HALB-  
INSEL; |TURKEY|: Asia minor.

2 ♀ Erzurum Prov.: Ejder Tepesi 2950m., 12.7.1985. Butterflies were also  
observed at the locality no 9, feeding on the flowers of *Salvia verticillata*.

*Cynthia cardui* (Linnaeus)

*Papilio cardui* Linnaeus, 1758, *Syst. Nat.* (Edn 10) 1: 475.  
Type(s): EUROPE, AFRICA.

Like the preceding species, observed at the localities no 8, 9.

*Azuritis reducta* (Staudinger)

*Limenitis camilla* v. *reducta* Staudinger, 1901, Cat. Lepid.  
 palaearct. Faunengeb. 1: 22. Syntypes: |U.S.S.R. |: Armenia  
 orientalis; |IRAN |: Myrcania.

It was observed at the locality no 3.

*Issoria lathonia* (Linnaeus)

*Papilio lathonia* Linnaeus, 1758, Syst. Nat. (Edn 10) 1: 481.  
 Type(s): EUROPE.

*Argynnis lathonia* v. *saturata* Röber, 1896, Ent. Nachr. 22  
 (6): 81-82. Syntypes: |TURKEY |: Gülek.

Observed at the locality no 8.

*Brenthis hecate* (Denis & Schiff.)

*Argynnis hecate* v. *caucasica* Staudinger, 1871, Cat. Lepid.  
 Eur. Faunengeb. 1: 21. Syntypes: |U.S.S.R. |: Armenia;  
 |TURKEY |: Turcia meridionalis (invalid name as junior  
 primary homonym of *caucasica* Staudinger, 1861).

*Brenthis hecate* var. *transcaucasica* Wnukowsky, 1929, Zool.  
 Anz. 23: 222 (replacement name for *caucasica* Staudin-  
 ger, 1871 nec Lederer, 1852).

1 ♂ Erzurum Prov.: Akbulut 1650m. 11.7.1985. It was observed also at the  
 locality no 3.

*Melitaea cinxia* (Linnaeus)

*Papilio cinxia* Linnaeus, 1758, Syst. Nat. (Edn 10) 1: 480.  
 Type(s): |EUROPE |.

1 ♂ Erzurum Prov.: Akbulut 1650m., 11.7.1985.

*Eurodryas aurinia* (Rottemburg)

*Papilio aurinia* Rottemburg, 1775, Der Naturforscher 6: 5.

1 ♀ Erzurum Prov.: Akbulut 1650m. 11.7.1985.

*Melanargia larissa* (Geyer)

*Papilio larissa* Geyer|1828|, Samml.eur.Schmett.1:pl.182,  
figs.896-899. Syntypes:|EUROPE|.

*Melanargia larissa* ssp.noacki Wagener, 1983, Atalanta 14  
(4):286-297, pl.7, 8, figs.1-8. Holotype ♂: TURKEY: Ankara.  
ra.

A common species on dry grassy slopes of the middle heights. It was observed at the localities no 2 and 3.

*Pseudochazara anthelea* (Hübner)

*Papilio anthelea* Hübner, |1824|, Samml.eur.Schmett.1:pl.  
174, figs.861-862. Syntypes:|EUROPE|.

Like the preceding species. 1♂ 1♀ Erzurum Prov. Akbulut 1650m. 11.7.1985.

*Pseudochazara beroe* (Freyer)

*Hipparchia beroe* Freyer, |1843|, Neuere Beitr.Schmett.5  
(70):53, pl.415, figs.1, 2. Syntypes: not mentioned.

Confined to the stony hill tops of the upper heights. It flies together with *A.pyrenaicus* during the sunny hours. 1♂ Erzurum Prov., Gölyurt Pass, 2450m. 11.7.1985.

*Pseudochazara mnischechii* (H.-Sch.)

*Satyrus mnischechii* Herrich-Schäffer, |1851|, Syst.8earb.  
Schmett.Eur.6:14; |1852|, ibidem 1:pl.120, figs.577-  
579 (uninominal). Syntypes:|TURKEY|: Kleinasien: Iokat.

It flies sympatrically with *M.larissa* and *P.anthelea* at the localities no 2 and 3.

*Erebia psodea* (Hübner)

*Papilio psodea* Hübner, |1804|, Samml.eur.Schmett.1:pl.98,  
figs.497-499. Syntypes:|EUROPE|.

Confined to the damp grassy places. Strongly heliophil species. 2♂ 2♀  
Erzurum Prov., Ejder Tepesi 2950m and Palandöken 2500m. 12.7.1985.

*Coenonympha pamphilus* (Linnaeus)

*Papilio pamphilus* Linnaeus, 1758, Syst. Nat. (Edn 10) 1:472.  
Type(s): EUROPE.

Like the preceding. 1 ♂ Erzurum Prov. Ejder Tepesi 2950m. 12.7.1985.

*Coenonympha leander* (Fabricius)

Pl. Rur. leander Esper, [1784], Die Schmett. 1(2):176, pl. 89,  
fig. 5. Type(s): [U.S.S.R.]: Wolga (uninominal, unavailable name).

*Papilio leander* Fabricius, 1787, Mant. Ins. 2:33, nr. 350.  
Type(s): EUROPA AUSTRALIORI.

*Coenonympha leander* v. *obscura* Heyne, [1894], Die Palae-  
arct. Gross-Schmett. Naturg. 1:610. Type(s): [U.S.S.R.]:  
Armenien.

A local species. Observed feeding on the flowers of *Thymus* at middle heights. 5 ♂ Erzurum Prov., Akbulut 1650m. 11.7.1985.

*Lasiommata maera* (Linnaeus)

*Papilio maera* Linnaeus, 1758, Syst. Nat. (Edn 10) 1:473.  
Type(s): [EUROPE].

*Pararge maera* ssp. *gracilis* Sheljuzhko, 1937, Festschr.  
Embrik Strand 2:346. Syntypes 1 ♂ 1 ♀ : [U.S.S.R.]:  
Grusien: Govern. Tiflis: Izarskije Kolodtzy.

*Pararge maera gracilis natio armeniaca* Sheljuzhko, 1937  
Festschr. Embrik Strand 2:346-347. Syntypes: [TURKEY]:  
Sarykamysch, Chasperik zwischen Olty und Bajburt (in-  
frasubspecific name).

*Pararge maera gracilis natio karsiana* Sheljuzhko, 1937,  
Festschr. Embrik Strand 2:347. Syntypes: [TURKEY]: Ket-  
shevanj (bei Kagyzman) (infrasubspecific name).

Like the preceding. 1 ♂ Erzurum Prov., Akbulut 1650m. 11.7.1985.

*Kirinia climene* (Fabricius)

*Nymph. Gem. climene* Esper, [1783], Die Schmett. 1(2):165, pl.  
85, figs. 1-3. Syntypes: [U.S.S.R.]: Wolga (uninominal,  
unavailable name).

*Papilio clymene* Fabricius, 1787, Mant. Ins. 2:44, nr. 434. Syn-  
types: [U.S.S.R.]: Russia australioris.

*Pararge climene* ssp. *valentinae* Miller, 1923, Izv. mosk.  
ént. Obshch. 2(2):95. Syntypes: [TURKEY]: Kagyzman.

This species inhabits apparently on sparse wooded stony slopes at middle heights, and flies together with *P.mniszechii* and *P.anthelea* in this provinces. The butterfly prefers to sit generally on the stony and sunny grounds in the early morning hours, but later, it flies higher especially among the oak trees.

4 ♂ 1 ♀ Erzurum Prov., Akbulut 1650m. 11.7.1985.

## LYCAENIDAE

### Zephyriinae

ZEPHYRIIDES Billberg, 1820, Enumeratio Insect. Mus. G. J.

Billberg: 80. Type-genus: *Zephyrus* Dalman, 1816.

THECLINAE Swainson, 1831, Zool. Illustr. (sec. ser.): pl. 85.

Type-genus: *Thecla* Fabricius, 1807.

### *Callophrys suaveola* (Staudinger)

*Thecla rubi* v. ? *suaveola* Staudinger, 1881, Stettin ent.

Ztg. 42(7-9): 279-280. Syntypes 4 ♂: |U.S.S.R. |: Saisan.

*Callophrys kolak* Higgins, 1965, Entomologist 98: 10. Holo-

type ♂: TURKEY: Gümüşane, Maden 5400 ft.

Confined to the upper heights. 1 ♀ Erzurum Prov., Ejder Tepesi 2950m. 12.7.1985.

### *Satyrrium abdominalis* (Gerhard)

*Thecla abdominalis* Gerhard, |1850|, Versuch monogr. eur.

Schmett. (1): 4, nr. 16, pl. 4, figs. 3a-b. Syntypes: |U.S.S.

R. |: Elisabethpol.

This species is confined to the thickets of the middle heights.

1 ♂ Erzurum Prov., Akbulut 1650m. 11.7.1985.

## Lycaeninae

### *Heodes alciphron* (Rottensburg)

*Polyommatus alciphron* v. *melibaeus* Staudinger, |1878|,

Horae Soc. ent. ross 14: 231-232. Syntypes: |TURKEY|,

|Amasya|, |Kislacik| Kyschlatschyk, |Yeniköy| Jenikeui-

Hochebene.

Not uncommon on damp flowery places. 2 ♂ Erzurum Prov., Akbulut 1650m.  
11.7.1985; 4 ♂ 1 ♀ Palandöken 2500m. 12.7.1985.

*Thersamonia kefersteini* (Gerhard)

*Polyommatus kefersteinii* Gerhard, [1850], Versuch Monogr.  
eur. Schmett. (3): 7, nr. 21, pl. 9, figs. 4a-c. Syntypes:  
TURKEY.

*Polyommatus ochimus* Herrich-Schäffer, [1852], Syst. Bearb.  
Schmett. Eur. 6: 31; ibidem 1: figs. 523-526. Syntypes:  
[TURKEY]: Kleinasien.

1 ♂ Erzurum Prov., Horasan 1600m., 18.6.1972 leg. Kocak (CES).

Polyommatinae

*Cupido osiris* (Meigen)

*Polyommatus osiris* Meigen, 1829, Syst. Besch. eur. Schmett.  
2(1): 7, pl. 46 figs. 3a-b. Syntypes: Loc. unbekannt!

Observed at the localities no 2 and 3. Not uncommon.

*Maculinea alcon* (Denis & Schiff.)

1 ♂ Erzurum Prov., Gölyurt Pass 2400m. 11.7.1985. A local species.

*Kretania carmon* (Gerhard)

*Lycaena carmon* Gerhard, [1851], Versuch Monogr. eur.  
Schmett. (7): 15, nr. 58, pl. 25, figs. 1a-c. Syntypes: TUR-  
KEY.

*Lycaena euryпилus* Freyer, 1852, Neuere Beitr. Schmett. 6:  
148, pl. 573, fig. 4. Type(s): [TURKEY]: Amasia.

This species inhabits on the tragacanthic slopes of the middle heights.

4 ♂ ♀ Erzurum Prov., Kırık 2100m, 11.7.1985; 1 ♂ Akbulut 1650m, 1 ♀ Gölyurt Pass  
2400m. same date.

*Plebejus argus* (Linnaeus)

*Papilio argus* Linnaeus, 1758, Syst. Nat. (Edn 10) 1: 483.  
Type(s): EUROPE, AFRICA.



*Lycaena argus* ssp. *tscherkessica* Forster, 1936, Mitt. Münch. ent. Ges. 26(2):131. Syntypes 18 ♂ 1 ♀: [USSR]: Kaukasus sept.: Teberda.

*Lycaena argus* *tscherkessica* f. *georgica* Forster, 1936, Mitt. Münch. ent. Ges. 26(2):132. Syntypes 6 ♂ 2 ♀: [USSR] Achalzich (infrasubspecific name).

This species inhabits preferably damp flowery places. Common.

2 ♂ 1 ♀ Erzurum Prov., Kırık 2100m; 3 ♂ Akbulut 1650m; 1 ♂ Gölyurt Pass 2400m. 11.7.1985; 3 ♂ Palandöken 2500m. 12.7.1985.

### *Lycaeides idas* (Linnaeus)

*Lycaena idas* ssp. *altarmena* Forster, 1936, Mitt. Münch. ent. Ges. 26(2):103. Syntypes 6 ♂ 1 ♀: [TURKEY]: Kasıkoparan, Ağır Dağ; [USSR]: Achalzich.

Like the preceding species. 4 ♂ Erzurum Prov., Kırık 2100m. 11.7.1985.

### *Plebejides pylaon* (F.W.)

*Lycaena pylaon* Fischer von Waldheim, 1832, Nouv. Mém. Soc. imp. Nat. Mosc. 2:357-358, pl. 19, figs. 5, 6. Syntypes: [USSR]: *Rossia meridionalis*: Sarepta.

*Lycaena sephirus* Frivaldszky, 1835, Közlemések a balkány vidékén tett természettudományi utazásról.: 269-270, pl. 7, figs. 1, 2. Syntypes: Balkány.

*Plebeius sephyrus microsephyrus* Verity, 1935, Bull. Soc. ent. Fr. 1935:245. Syntypes: [TURKEY] Asia minor: Malatya Tecde.

Like the preceding species. 2 ♂ Erzurum Prov., Kırık 2100m. 11.7.1985.

### - *Agriades pyrenaicus* (Boisduval)

*Lycaena orbitulus* var. *pyrenaica* Boisduval, 1840, Gen. Index meth. eur. Lepid.: 11. Type(s): Pyren.

*Agriades pyrenaicus* ssp. *erzurumensis* Eckweiler & Hesselbarth, 1978, Nachr. Bf. Bayer. Ent. 27(4):65-68, figs. 1-4. Holotype ♂: [TURKEY]: Prov. Erzurum: Palandöken Dağ., 2900-3100m.

Confined to the stony hill tops of the upper heights. Sympatric with *P. beroe*.

5 ♂ 2 ♀ (paratypes of ssp. *erzurumensis* Eckw.): Türkei, Erzurum Palandöken Dağ 2900-3100m. 27.7.-31.7.1977 leg. Eckweiler (in coll. CES); 11 ♂ 2 ♀: Erzurum Prov., Gölyurt Pass 2450m. 11.7.1985; 1 ♂ Ejder Tepesi 2950m. 12.7.1985.

*Ultraaricia crassipuncta* (Christoph)

*Lycaena anteros* v. *crassipuncta* Christoph, 1893, Ot. ent.  
Z., Iris 6:86. Type(s): |TURKEY| Kasıkoparan.

1 ♀: Erzurum Prov., Akbulut 1650m, 11.7.1985.

*Aricia teberdina* (Sheljuzhko)

*Lycaena teberdina* Sheljuzhko, 1934, Z. öster. EntVer. 19:39-40, figs. 5-8. Syntypes: |U.S.S.R.| Chatipara-Berg, 2200-2300m.

*Aricia teberdina* ssp. *nahizerica* Eckweiler, 1978, Nota lepid. 1(3):115-117, figs. 1-4. Holotype ♂: TURKEY: Prov. Erzurum: Ispir, vic. Nahizer, 1700-1900m.

7 ♀: Türkei, Erzurum Ispir/Nahizer 1700-1900m. 4.8.-8.8.77 (paratypes of the ssp. *nahizerica* Eckw.) leg. Eckweiler (in coll. CES).

*Polyommatus icarus* (Rottemburg)

*Papilio icarus* Rottemburg, 1775, Naturforscher 6:21.

1 ♂: Erzurum Prov., Akbulut 1650m 11.7.1985; Palandöken 2800m, 16 Palandöken 2500m. 12.7.1985.

*Meleageria daphnis* (Denis & Schiff.)

*Papilio daphnis* [Denis & Schiffermüller], 1775, Ankündigung syst. Werkes Schmett. Wienergegend: 182. Type(s): |AUSTRIA|: Vienna district.

*Meleageria daphnis* ssp. *palandökis* Schurian & Häuser, 1981 Atalanta 12(2):105-106, figs. 2a-d. Holotype ♂: |TURKEY| Anatolia: Erzurum: Palandöken, 2200m.

3 ♂: Erzurum Prov., Akbulut 1650m, 11.7.1985.

*Sublysandra myrrha* (H.-Sch.)

*Lycaena myrrha* Herrich-Schäffer, [1852], Syst. Bearb. Schmett. Eur. 6:26; [1851], ibidem 1: figs. 508-511 (uninomial). Syntypes: |TURKEY|: Kleinasien.

*Lycaena myrrha* v. *myrrhina* Staudinger, 1901, Cat. Lepid. palaearct. Faunengeb. 1:85. Type(s) ♂: |TURKEY|: Gümüşhane.

*Agrodiaetus iphigenia* (H.Sch.)

*Lycaena iphigenia* Herrich-Schäffer, |1847|, Syst. Bearb.  
 Schmett. Eur. 1: pl. 73, fig. 354; |1851|, ibidem 6: 24.  
 Syntypes: |TURKEY|: |Türkei| = ? Bursa, Uludag|.

2 ♂: Erzurum Prov., Akbulut 1650m, 11.7.1985; 1 ♂ Kırık 2100m 11.7.1985.

*Agrodiaetus ripartii* (Freyer)

*Lycaena ripartii* Freyer, |1830|, Beitr. Schmett. 3: 128, pl.  
 133, fig. 3. Type(s): SPAIN.

1 ♂: Erzurum Prov., Akbulut 1650m, 11.7.1985.

## HESPERIIDAE

*Pyrgus serratulae* (Rambur)

*Syrichthus serratulae* v. major Staudinger, |1878|, Horae  
 Soc. ent. ross. 14: 292. Syntypes: |TURKEY|: |Amasya| Keras-  
 dere, Taurus.

1 ♂: Erzurum Prov., Kırık 2100m, 11.7.85.

*Pyrgus armoricanus* (Oberthür)

*Syrichthus alveus* f. *armoricanus* Oberthür, 1910, Etüd. Lépid  
 comp. 4: 411, pl. 57, figs. 509-517. Syntypes: FRANCE: En-  
 viron de Rennes.

1 ♂: Erzurum Prov., Kırık 2100m, 11.7.1985.

*Muschampia tessellum* (Hübner)

*Papilio tessellum* Hübner, |1803|, Samml. eur. Schmett.  
 pl. Pap., figs. 469, 470. Types: |EUROPE|.

3 ♂: Erzurum Prov., Akbulut 1650m, 11.7.1985.

*Neospialia orbifer* (Hübner)

*Papilio orbifer* Hübner, |1823|, Samml. eur. Schmett. 1: pl. 161  
 figs. 803-806. Syntypes: |EUROPE|.

2 ♂ 1 ♀: Erzurum Prov. Kırık 2100m.; Akbulut 1650m, 11.7.1985.

*Thymelicus sylvestris* (Poda)

*Papilio sylvestris* Poda, 1761, *Insecta Musei Graecensis*:  
79.

1 ♂ 1 ♀: Erzurum Prov., Akbulut 1650m. 11.7.1985.

## SPHINGIDAE

*Hyles nicaea* (v. Prunner)

*Sphinx nicaea* v. Prunner, 1798, *Lepidoptera pedemontana*  
1:85.

*Deilephila nicaea* v. *orientalis* Austaut, 1905, *Ent.Z.*,  
Frankf.a.M. 18:143. Syntypes: |U.S.S.R. | : Crimeé; |IRAN |  
N. Perse: Aschabad.

2 ♂: Erzurum Prov., Akbulut 1650m. 11.7.1985.

## SATURNIIDAE

*Saturnia cephalariae* Christoph

*Saturnia cephalariae* Christoph, 1885, in Romanoff, N.M.,  
*Lépidoptères de la Transcaucasie* in Romanoff, N.M.,  
*Mém. Lepid.* 2:14-19, pl. 14. Syntypes: |TURKEY | : Kasiko-  
paran.

The larvae of this species were found on the leaves of *Cephalaria* sp. at the locality Gölyurt 2400m. on July 11st, 1985. They were mostly half-grown caterpillars and reared in plastic boxes with the leaves of this plant until they pupated. Unfortunately, next year any adult specimen could be obtained from the pupae.

## LASIOCAMPIDAE

*Malacosoma* sp.

Caterpillars were found on the leaves of *Rosa* sp. at the locality no 4.

## LYMANTRIIDAE

*Leucoma salicis* (Linnaeus)

*Phalaena salicis* Linnaeus, 1758, *Syst. Nat.* (Edn 10) 1:502.  
Type(s): |EUROPE |.

1 ♂: Erzurum Prov., Palandöken, Ski-Hause 2200m. 11.7.1985 at light trap.

## GEOMETRIDAE

*Pseudoterpna pruinata* (Hufnagel)

1 ♂:Erzurum Prov.,Akbulut 1650m.11.7.1985,heliophil.

*Thetidia smaragdaria* (Fabricius)

4 ♂: Erzurum Prov.,Aşkale,1800m.,27.7.1972 leg.Koçak(CES).

*Rhodostrophia auctata* (Staudinger)

*Pellonia auctata* Staudinger,1879,Horae Soc.ent.ross.  
14:441.Syntypes:|TURKEY|,|Amasya|Maidan,Caraman.

2 ♂:Erzurum Prov.,Gölyurt 2450m. 11.7.1985,heliophil.

*Rhodostrophia badiaria* (Freyer)

1 ♂:Erzurum Prov.,Kırık 2100m.11.7.1985;2 ♂ Ejder Tepesi 3000m.12.7.1985,  
heliophil.

*Rhodostrophia vibicaria* (Clerck)

1 ♂:Erzurum Prov.,Kırık 2100m.11.7.1985;1 ♂ Akbulut 1650m.11.7.1985,he-  
liophil.

*Scopula decorata* (Denis & Schiff.)

1 ♂:Erzurum Prov.,Kırık 2100m.11.7.1985,heliophil.

*Scopula incanata* (Linnaeus)

2 ♀:Erzurum Prov.,Gölyurt 2450m.11.7.1985 heliophil.

*Scotopteryx bipunctaria* (Denis & Schiff.)

2 ♂♂:Erzurum Prov.,Kırık 2100m.11.7.1985,heliophil.

*Aplocera boisduvaliata* (Duponchel)

1 ♂:Erzurum Prov.,Kırık 2100m.11.7.1985,heliophil.

*Aplocera numidaria* (H.Sch.)

2 ♀ Erzurum Prov.,Gölyurt 2450m.11.7.1985;1 ♂:Ejder Tepesi 3000m.  
12.7.1985,heliophil.

## ARCTIIDAE

*Parasemia caucasica* (Ménétries)

This species was observed at the locality no 8.

## NOCTUIDAE

*Euxoa* sp.

2 ♂♂:Erzurum Prov.,Palandöken 2200m. 11.7.1985. These specimens are referable to *E.rjabovi* Kozh.

*Agrotis wagneri* (Corti & Draudt)

1 ♂ 1 ♀:Erzurum Prov.Akbulut 1650m.11.7.1985.

*Agrotis ipsilon* (Hufnagel)

1 ♂:Erzurum Prov.,Akbulut 1650m.11.7.1985.

*Dichagyris terminicincta* (Corti & Draudt)

1 ♀:Erzurum Prov.,Akbulut 1650m.11.7.1985.

*Chersotis laeta* (Rebel)

1 ♀:Erzurum Prov.,Akbulut 1650m.11.7.1985.

*Hadena compta* (Denis & Schiff.)

*Noctua compta*|Denis & Schiffermüller|,1775,Ankündigung  
syst.Werkes Schmett.Wienergegend:70.Type(s):  
|AUSTRIA|:Vienna district.

1 ♂:Erzurum Prov.,Palandöken 2200m.11.7.1985.

*Hadena staudingeri* (Wagner)

1 ♀: Erzurum Prov.,Akbulut 1650m.11.7.1985.

*Eublemma parallela* (Freyer)

Observed at the locality no 8.

*Eublemma polygramma* (Duponchel)

1 ♂:Erzurum Prov.,Kırık 2100m.11.7.1985,heliophil.

*Autophila luxuriosa* Zerny

1 ♂:Erzurum Prov.,Akbulut 1650m.11.7.1985(Gen.Prep.1255).

## PYRALIDAE

*Synaphe bombycalis* (Denis & Schiff.)

1 ♂:Erzurum Prov.,Gölyurt 2450m.11.7.1985,heliophil.

*Susia exasperata* (Staudinger)

Myelois ? exasperata Staudinger,1879,Horae Soc.ent.ross.  
15:217-218.Syntypes 1♂lo:|TURKEY|:Jenikeui-Hochebene  
+  
(Amasya);Taurus.

1 ♂:Erzurum Prov.Palandöken 2800m.12.7.1985,heliophil.

*Catastia marginata* (Denis & Schiff.)

Noctua marginata|Denis & Schiffermüller|,1775,Ankündigung  
syst.Werkes Schmiett.Wienergegend:69,317.Type(s):  
|AUSTRIA|:Vienna district.

1 ♂:Erzurum Prov.,Ejder Tepesi 3000m.12.7.1985,heliophil.

*Pyrausta cespitalis*(Denis & Schiff.)

2 ex.:Erzurum Prov.,Akbulut 1650m.11.7.1985.

*Sitochroa verticalis* (Linnaeus)

1 ♂:Erzurum Prov.Akbulut 1650m.11.7.1985;1 ♂:Kırık 2100m.11.7.1985,  
heliophil.

*Ephelis cruentalis* (Hübner)

1 ex.:Erzurum Prov.Akbulut 1650m.11.7.1985.

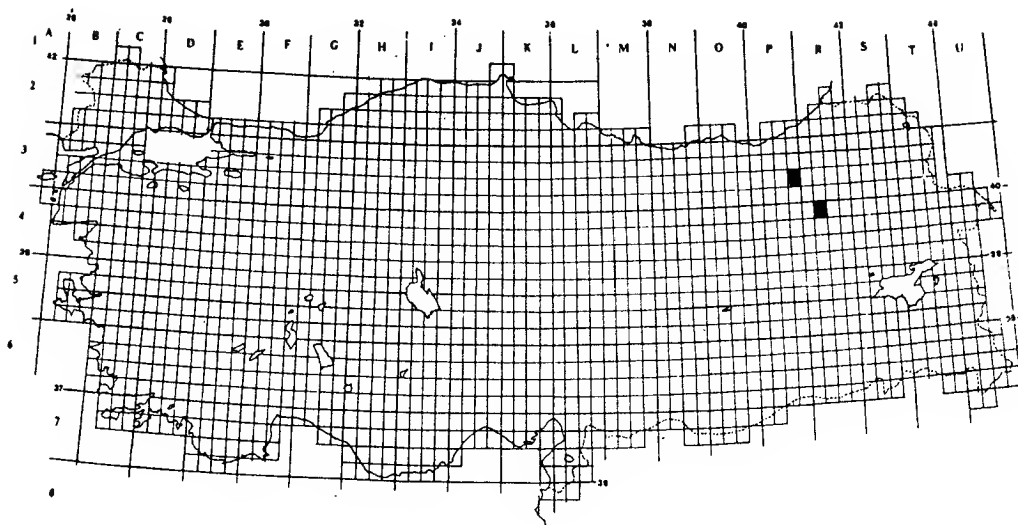
## OECOPHORIDAE

Pleurota sp.

1 ex.:Erzurum Prov.Akbulut 1650m.11.7.1985.

## Acknowledgement:

I specially thank Mr.Fatih Çakır for the excellent illustrations prepared for this paper.



Map 1- Marked quadrates have been visited in 1985.



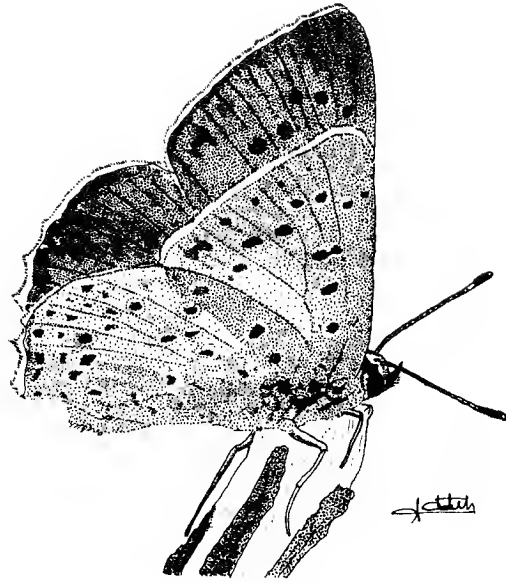


Fig.1- *Heodes alciphron* Rott. A male at rest.  
Erzurum Prov.:Akbulut 1950m.10.7.1985 (sl.no LEP01514)

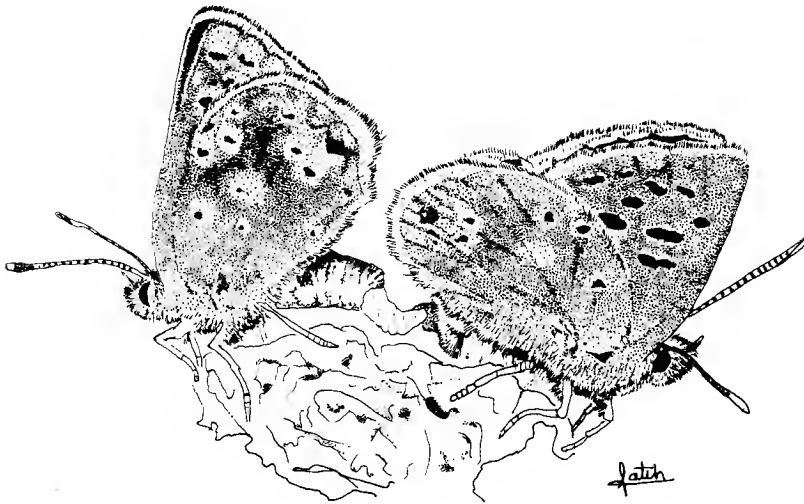


Fig.2- *Agriades pyrenaicus* Bsd. in copula on the ground.  
Erzurum Prov.,Gölyurt Pass 2450m.11.7.1985 (sl.no LEP01519).

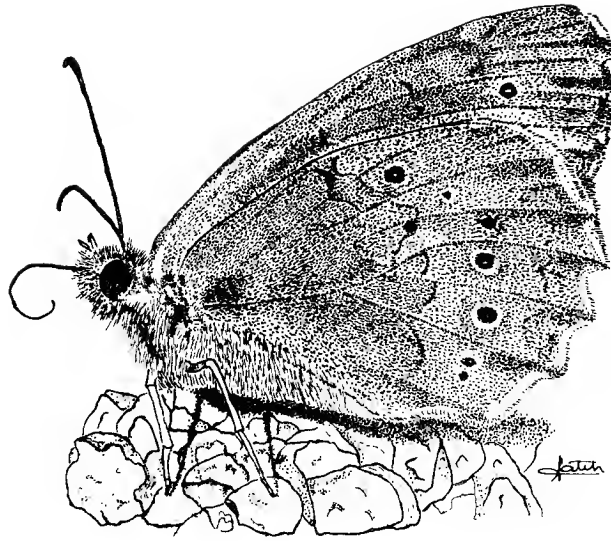


Fig.3- *Kirinia climene* Fabr. A male at rest.  
Erzurum Prov.:Akbulut 1650m. 10.7.1985 (sl.no LEP01517)

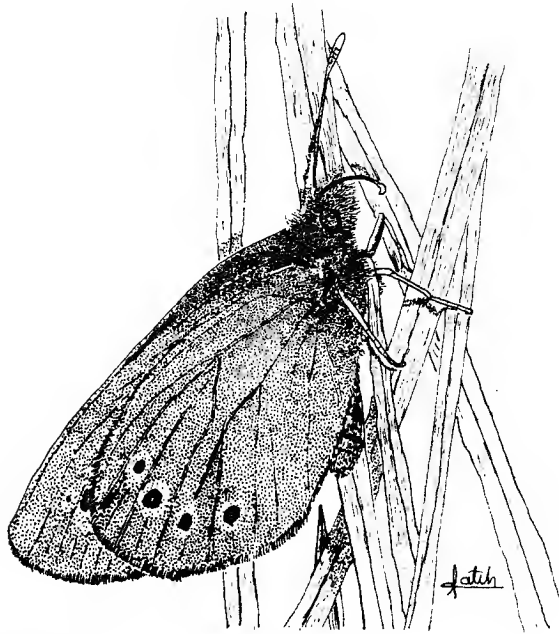


Fig.4- *Erebia psodea* Hübn. A male at rest.  
Erzurum Prov.:Palandöken 2950m.12.7.1985(sl.no LEP01525).



Fig.5- *Hyles nicaea* v. Prunn. A male at rest on *Astragalus* sp.  
Erzurum Prov.: Akbulut 1650m. 11.7.1985 (sl.no LEP01509).

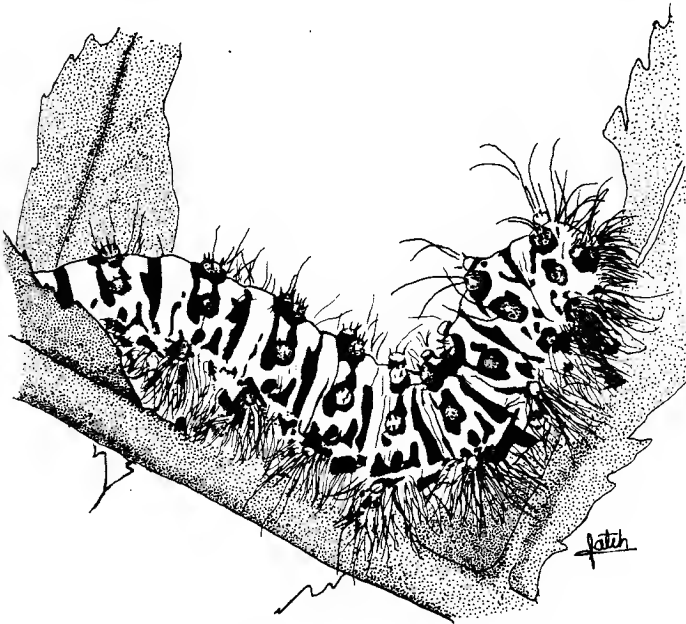


Fig.6- Caterpillar of *Saturnia cephalariae* Chr. feeding on the  
leaves of *Cephalaria* sp.  
Erzurum Prov., Gölyurt Pass 2450m. 11.7.1985 (sl.no LEP01521).

## DISCOLOXIA BLOMERI (CURTIS) IN TURKEY

(Lepidoptera, Geometridae)

by

Ahmet Ö. Koçak

Priamus 5(3): 92-94, 1 fig.

ABSTRACT: In this paper, *Discoloxia blomeri* Curtis new to Turkish fauna is mentioned. Taxonomic position, distribution and ecology of the species is also briefly discussed. A male from Turkey is illustrated.

In the year of 1986, during an expedition to North Turkey made by the author, three specimens of *Discoloxia blomeri* (Curtis) were captured at the light trap. The known range of this species is from Central and North Europe North Asia to Japan (Staudinger 1901, Prout 1914, and others). The present record is important, since this species has not yet been found in Turkey. This is the fourth Turkish *Asthenini* species in the subfamily *Larentiinae*. They are:

*Asthenia albulata* (Hufnagel, 1767)*Euchoeca nebulata* (Scopoli, 1763)*Minoa murinata* (Scopoli, 1763)*Discoloxia blomeri* (Curtis, 1832)

This species was originally described by Curtis in 1832 from England as "*Melanippe blomeri*". The name *pulchraria* was described by Eversmann in 1842 according to the specimens from Russia. The name *blomeraria* was proposed by Guenee in 1857. All these names appear to be synonyms in the nominate *blomeri* Curt.

The generic status of this species is somewhat uncertain. Prout (1914) and Leraut (1980) placed *blomeri* in the genus *Discoloxia* Warren. Meyrick (1928) considered it as a species in the genus *Euchoeca* Hbn. Vidalepp (1977) treated *blomeri* in the genus *Venusia* Curtis, etc. In the present note, no comment regarding the generic status of *blomeri* is given, but the latest combination accepted is mentioned here to be valid.

This species flies in June and July by night. Its caterpillars feed on *Ulmus montana* in August and September (Prout 1914).

The Turkish specimens captured at light inhabited in a mixed forest in the Province Bolu (N.Turkey). Any active specimen was observed by day.

The moth is easily distinguishable from the other relatives by pale gray upperside of the forewing, freckled with minute black scales, and post-discal large fulvous spot on the same wing. Length of fw. 11.5-12 mm. av.: 11.83 mm (Fig.1).

Material examined:

3 ♂♂: BOLU Province: S. of Bolu city, Kademli dönemeci, Gölcük Tepealtı orman yolu 1350m. (3Gg), 13.7.1986 leg. A. Koçak (in coll. CES).

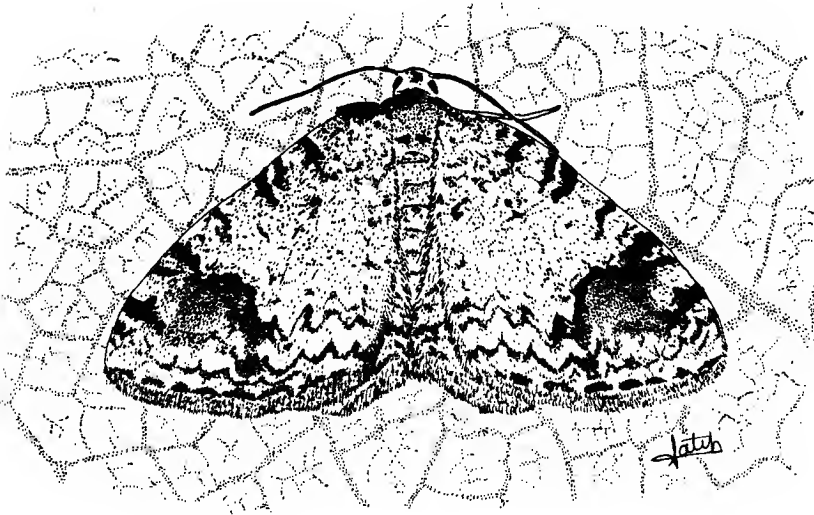


Fig.1- *Discoloxia blomeri* Curtis. At rest.  
Bolu Prov.: S. of Bolu city 1350m. 13.7.1986 leg. A. Koçak  
(sl.no LEP01804).

Acknowledgement:

I am indebted to Mr. Fatih Çakır for the excellent illustration.

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\*\*\*\*\*

ON THE EARLY STAGES OF *CYNAEDA GIGANTEA* (STGR) IN  
CENTRAL TURKEY (Lepidoptera, Pyralidae)

by

Ahmet Ö.Koçak

Priamus 5(3): 95-97, 2 figs.

ABSTRACT: In this paper, the larval biology and the colouration of *Cynaeda* species in Central Turkey are discussed. Distributional notes, illustrations of the caterpillar and the imago are given.

Staudinger described several specimens in the Pyralidae, collected by Emil, Zach and Lederer from "Dervend-Thal, Caraman and Amasia" (all localities in the Province Amasya, N.E. Turkey). The description is as follows:

"Sie (die Raupe) ist kurz dick, grünlich mit schwarzem Kopf, Nackenschild und Warzen... Die Stücke (Falter) sind grösser und besonders weit heller als die deutschen... Die ♂♂ haben stets helle Hinterflügel, die ♀♀ öfters schwarz angeflogene" (Staudinger, 1879: 166).

He used the name "*Odontia dentalis* v. *gigantea*" for this variation of the species.

The taxonomical status of *gigantea* was discussed and changed by de Lattin (1951) as a distinct species in a distinct genus, i.e., *Cynaeda gigantea* (Staudinger, 1879).

According to various authors, the caterpillars of *Cynaeda dentalis* Denis & Schiff. and *C. gigantea* Stgr. feed on *Echium vulgare* L., and *Anchusa* species in spring. Staudinger (loc. cit.) mentioned also *Onosma stellulatum*\* as a food plant of *gigantea* Stgr. from Amasya.

According to Treitschke (1829: 54-55), the caterpillar of *dentalis* is pale straw yellow coloured. As in some major publications, Spuler (1907: 230) stated also in his well known book on European Lepidoptera: "Die weiblich Raupe mit schwarzen Punktwarzen...". In his original description of *gigantea*, Staudinger (loc. cit.) mentioned a greenish caterpillar.

\* "*Onosma stellulatum* Waldst. & Kit., 1804. Numerous collections are cited in the literature under this widely misapplied name. They cannot be allocated to any single Turkish taxon, though the majority probably refer to *O. bornmuelleri* Hausskn., 1890" (Riedl, H., 1978, in Davis, P.H., Flora of Turkey 6: 376).

In 1984, I reared several caterpillars of *Cynaeda*, collected by myself from Çal Dağı (Ankara Province, C. Turkey). The native food plant was *Echium italicum* L. 1753. All the full grown larvae obtained were dull black in colour (fig.1). I have never seen pale yellowish or greenish caterpillars at this locality, also in the subsequent collecting seasons. They pupated in a rough, roundish cocoon made among the leaves of the food plant. The moths emerged in June 15th, 1984. All were males in sex and with light yellowish wing markings like *gigantea* Stgr. (fig.2).

At the present time, further informations about the biology of this species are needed.

Distribution of these two species in Turkey is as follows:

*Cynaeda dentalis* Denis & Schiffermüller, 1775:

Akşehir, Adana İskenderun (de Lattin, 1951); Suluhan (Kozan) (Amsel, 1953).

*Cynaeda gigantea* Staudinger, 1879:

?Bursa (Mann), Amasya (Stgr., 1879); Düldül Dağ, Maraş, Sivrice, Van, Bolu (de Lattin 1951); Sakçagözü (Maraş) (Amsel, 1953).

Material Examined:

*Cynaeda* specimens in the collection CES are referable to *Cynaeda gigantea* Stgr. The collecting data and the measurements of the forewing are given below:

1 ♀: Ankara Prov., Kızılcahamam, Azap Deresi 20.6.1975 (fw. 12.5mm)

4 ♂♂: Ankara Prov. Çal Dağı 1150m. 15.6.1984 (reared specimens) (fw. 9.5, 10.5, 13.5, 14.0mm).

1 ♀: Ankara Prov. Çal Dağı 1300m. 24.9.1979 (fw. 12mm).

1 ♂: Bolu Prov. Abant 1200m. 4.7.1981 (fw. 13.5mm).

1 ♂: Van Prov., Tımar 1750m. 28.6.1972 (fw. 14 mm). A quite dark male, which may be referred to *C. dentalis*.

#### Acknowledgement:

I sincerely thank Mr. Fatih Çakır for drawing the adult insect.



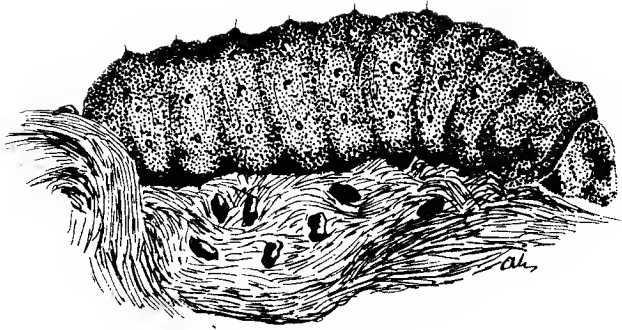


Fig.1- Full grown caterpillar of *Cynaeda gigantea* Stgr., removed from the cocoon before pupation.

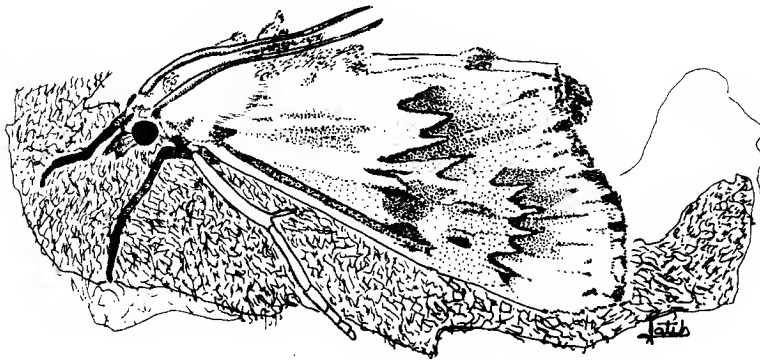


Fig.2- Male of *Cynaeda gigantea* Stgr. newly emerged.

#### Literature:

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Wissenschaftliche Ergebnisse der zoologischen Expedition des National Museum in Prag nach der Türkei.- Sb.ent.Odd.nar.Mus.Praze 28:411-429.

de Lattin, G., 1951,

Über die Arten der Gattung *Cynaeda* Hbn. (Pyralidae).- Z.Lepid.1(2): 65-84, Abb.

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Lepidopteren-Fauna Kleinasien's (Fortsetzung).- Horae Soc.ent.ross.15: 159-435.

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In Ochsenheimer, F., Die Schmetterlinge von Europa. Vol.7, 252 pp. Leipzig.

## NEODIPRION SERTIFER (Geoffroy) IN TURKEY

(Hymenoptera, Diprionidae)

by

Ahmet Ö.Koçak

Priamus 5(3): 98-100, 1 fig.

ABSTRACT: In this paper, the Turkish records of *Neodiprion sertifer* (Geoffr.) are given. The taxonomic status, morphology and ecology of the species are mentioned. A full-grown larva is figured.

In 1983, during a collecting trip to South Turkey, I collected a number of larvae of *Neodiprion sertifer* (Geoffroy) on the leaves of *Pinus brutia*. On May 21st, 1989, I collected again a large number of *N. sertifer* larvae on the upper stems of *Pinus nigra* in Beynam Forest (Central Turkey). After rearing these larvae totally 6 ♂ 20 ♀ were obtained in the breeding boxes.

This species was first described by Geoffroy in 1785 in the genus *Tenthredo* Linnaeus, 1758, *Syst. nat.* (ed. 10): 555. Although it was treated by some authors in the genus *Lophyrus* Latreille, 1802, Sonnini's Buffon, *Ins.* 3: 302, this name cannot be used validly for the genus, as it is junior homonym of *Lophyrus* Poli, 1791, *Test. Sicil.* 1, 2: 4 in Mollusca. Others considered this species in the genus *Diprion* Schrank, 1802, *Fauna Boica* 2(2): 209. This treatment can be regarded to be correct. However, the genus *Diprion* Schr. was revised and divided into several subgenera or genera by some authors. Rohwer (1918: 83) established *Neodiprion* with the type-species *Lophyrus lecontei* Fitch. (Nearctic). Benson (1939) revised the genera *Diprionidae* and

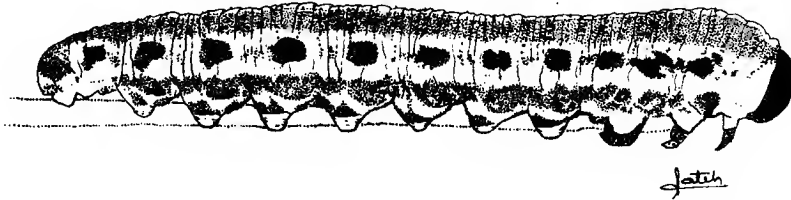


Fig.1- *Neodiprion sertifer* Geoffroy. A full grown larva on *Pinus brutia*. Antalya Prov.: vic. Murtiçi 800m. 20. 5. 1983, A. Koçak.

distinguished *Neodiprion sertifer* (Geoffr.) from others.

The diagnostic characters of the adults are as follows:-

**Males:** Body slender and smaller than in female. General colouration black. Surface of thorax and head not smooth, punctated. Abdomen smooth surfaced, dorsal and lateral parts in the middle segments reddish brown in some specimens. Antenna long, black, 25-26 segmented, bipectinate. Palpi slender, yellowish brown. Legs yellowish brown. Claws with a small subapical tooth. Wings transparent, colourless. Veins brown to blackish in colour. Anal cell of hindwing with a stalk shorter than the breadth of the cell.

Forewing: 5.5-6.5 mm. av.: 5.80 mm. (5 ♂ from Beynam). 7 mm. (1 ♂ from Murtiçi).

**Females:** Body robust and larger than in male. General colouration yellowish brown. Surface of the body smooth. Antenna shorter than in male, serrate, 23 segmented, black except base. Legs similar to those of male. Wings transparent, yellowish in colour. Veins yellowish brown. Venation similar to that of male.

Forewing: 6.50-9.00 mm., av. 8.11 mm (17 ♀ from Beynam). 8.5 mm. (3 ♀ from Murtiçi).

**Larva:**

Head shining black. Body dirty greenish gray with dark dorsal and dorso-lateral stripes. On the sides blackish spots more or less developed. Pseudo-legs grayish green (Fig.1).

The members of the family Diprionidae seem to be unknown in Turkey (cf. Benson 1968). These records mentioned in this paper appear to be new to Turkish fauna. As *N. sertifer* is a well-known Pinus pest in Europe, the present report will also be useful for the Turkish foresters.

The larvae of the Turkish *N. sertifer* feed on the leaves of *Pinus brutia* and *Pinus nigra* in May. They live and feed in groups. The adults emerge in October. Only one annual generation has been recorded.

**Material examined:**

5 ♂ 17 ♀ : ANKARA Prov.: Beynam Forest 1200m emerged on Oct. 15th, 1989.

Larvae collected on May 21st, 1989 on *P. nigra*.

1 ♂ 3 ♀ : ANTALYA Prov.: Murtiçi 800m. emerged on Oct. 1st, 1983. Larvae collected on May 20th, 1983 on *P. brutia*.

A large number of larvae collected at Beynam are preserved in alcohol. All the specimens are in the collection CES.

## Acknowledgement:

I thank Mr.Fatih Çakır for the drawing of the larva.

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GEOMETRA PURISSIMA WILTSHIRE IN NORTH PAKISTAN  
(Lepidoptera,Geometridae)\*

by

Ahmet Ö.Koçak

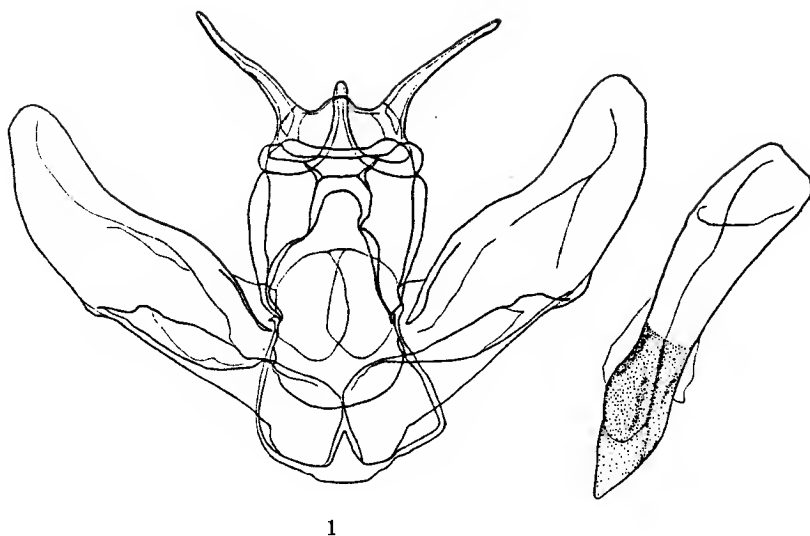
Priamus 5(3):100-102,2figs.,1map.

ABSTRACT:In this paper,Geometra purissima Wiltshire recorded from North Pakistan is mentioned. Notes on the distribution with a map,and the male genitalia of two related species are also given.

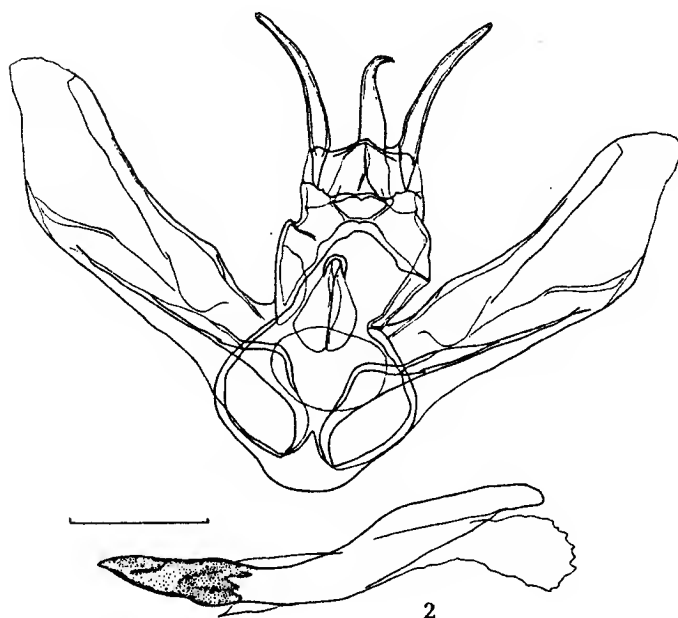
In 1987, during the lepidopterological expedition to North Pakistan, made by the author,some specimens belong to the species Geometra purissima Wiltsh. were collected at light trap.

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\* Results of the Lepidopterological Expedition to North Pakistan in 1987.Part 2.



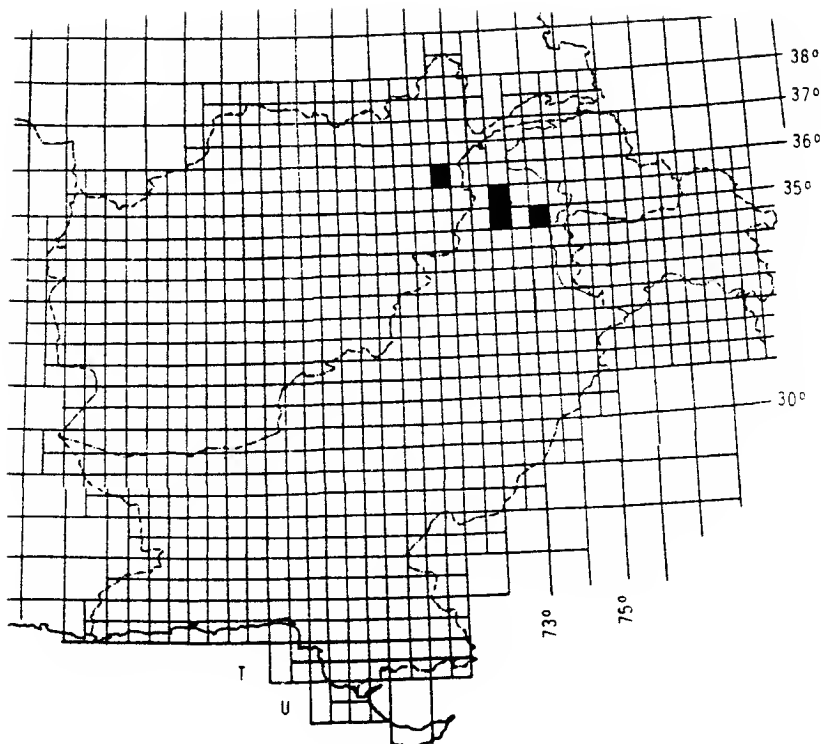
1



2

Fig.1- *Geometra papilionaria* Linn. Male genitalia(ventral aspect).  
TURKEY:Bolu Prov.,Karadere,Kırıksuyu 900m (3Gc) 28.7.1986  
leg.Koçak(G.P.1166 ♂)(in coll.CES).

Fig.2- *Geometra purissima* Wilts. Male genitalia(ventral aspect).  
PAKISTAN:Swat:Shangla 2100m 28.6.1987 leg.A.Koçak(G.P.1167 ♂)  
(in coll.CES)  
Scale line 1 mm.



Map 1- *Geometra purissima* Wilts. in N. Pakistan.

*Geometra purissima* was first described by Wiltshire in 1966 according to a single male collected from North Afghanistan. The present records extend the range of this species into North Pakistan (map 1).

**Material examined:**

- 1 ♂: N. PAKISTAN: Swat, Shangla 2100m. 27-28.6.1987 leg. A. Koçak (fig. 2, male genitalia); 4 ♀: Swat, Madyan 1400m. 23.6.1987 leg. A. Koçak; 1 ♀: Hazara, Chatter plain 1670m. 12.7.1987 leg. A. Koçak (in coll. CES).

**Acknowledgement:**

I am specially grateful to the authorities of Pakistan, for allowing me to realise this expedition, and to my friends for their kind assistance during the field work. I also thank to Mrs. A. Sıdıka Özdeniz for the line drawings.

**Literature:**

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NOTES ON THE TAXONOMY AND NOMENCLATURE OF THE  
PALAEARCTIC NOCTUIDAE (Lepidoptera)-I

by

Ahmet Ö.Koçak

Priamus 5(3):103-104.

A B S T R A C T : In this paper, a new subgenus, Rasihia (sg.n.) is established. The taxonomic status of some species in the genera Polioibrya Hamps. and Victrix Stgr. is discussed.

In this paper, a new subgenus Rasihia (sg.n.) is established for the species *Bryophila conspersa* Christoph, 1893 (= *Bryophila forsteri* Brandt, 1941).

After taking the *Victrix* material from Turkey, and the specimens in the collection of CES and Landessammlungen für Naturkunde Karlsruhe, into consideration, I came to the conclusion that *B. conspersa* Chr. and *B. forsteri* Brdt. (synonymized by Boursin, 1961 without comment) should be placed in a distinct subgenus in the genus *Victrix* Staudinger, 1879. Believing that this subgenus here mentioned is new to science, I propose the name *Rasihia* (sg.n.) with the following differentiating characters:

Subgenus: *Rasihia* (sg.n.)

Type-species: *Bryophila conspersa* Christoph, 1893 (here designated).

This new subgenus is similar to the nominate subgenus with its external features, but differs from it by the developed proboscis, greyish or brownish hindwing colouration (not white), pointed valva, slender and straight harpe in the male genitalia.

As to the Turkish species, e.g., *karsiana* Stgr., *gracilis* Wagn., perhaps more in the genus *Victrix* Stgr., they should be considered in the subgenus *Victrix* Stgr. *Polioibrya* Hampson should be placed as a next genus to *Victrix* Stgr. It differs from *Victrix* Stgr. by the absence of harpe in the male genitalia.

I dedicate this subgenus to my friend Prof. Dr. Rasih Demirci (Ankara).

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**New Taxon Described in this Part of Priamus:**

**Rasihia (sg. n.) (Noctuidae).....103**

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*All communications should be addressed to the Editor*

*Prof. Dr Ahmet Öner Koçak*

*Gazi Üniversitesi, Fen-Edebiyat  
Fakültesi, Biyoloji Bölümü  
Teknikokullar  
06500 Ankara  
TURKEY*